



Environmental Technology Partnerships

Environmental
Cleanup

U.S. Environmental
Protection
Agency

Office of Research and Development
Office of Solid Waste and Emergency Response
Washington, DC 20460

EPA/600/F-94/028
September 1994

Cooperative Research and Development Agreement with Clean Sites, Inc.

Design and Evaluation of Innovative Hazardous Waste Treatment Technologies at McClellan AFB

Participants

This Cooperative Research and Development Agreement (CRADA) brings together hazardous waste clean-up professionals from the U.S. Environmental Protection Agency's (EPA) Office of Research and Development, Risk Reduction Engineering Laboratory; The Office of Solid Waste and Emergency Response, Technology Innovation Office (TIO); and Clean Sites, Inc. In addition, the U.S. Air Force and several private sector companies are participating in the partnership project. Clean Sites is facilitating the partnership and will represent the private sector partners: AT&T, Beazer East, Dow, DuPont, Monsanto, Southern California Edison, and Xerox.

Purpose

The intent of this CRADA, EPA's first at a federal facility, is to enable private firms, through Clean Sites, Inc., to participate in a partnership to demonstrate and evaluate innovative treatment technologies for contaminated soils and ground water.

These new treatment technologies are likely to include:

- Two-phase vacuum extraction for ground water contamination remediation.
- Various options for off-gas treatment on a Soil Vapor Extraction (SVE) system treating VOCs in subsurface soils.

Background

McClellan Air Force Base in California has approximately 240 contaminated sites requiring cleanup, making it an excellent location to test and evaluate multiple remediation methods.

EPA's Superfund Innovative Technology Evaluation (SITE) program will be primarily responsible for the design and development of each project plan and will work closely with representatives from the Air Force, State of California, Clean Sites, and the participating private sector partners. SITE promotes the development and implementation of innovative technologies for remediating hazardous waste

sites and for evaluating the nature and extent of hazardous waste site contamination. TIO will assist the SITE program in gathering input and will be responsible for disseminating the evaluation results to the public.

Benefits to Government and Industry

The major benefit from this agreement is the improved potential for acceptance of credible technologies and treatment trains in the regulatory and regulated communities by showing that these technologies can be applied at full scale for hazardous waste cleanups. This CRADA will additionally facilitate the collection of performance and cost data on technologies applicable to the participants own site contamination problems without having to risk failed tests on company-owned properties.

This is one of more than 50 cooperative research and development agreements EPA has with various U.S. businesses, academic institutions and state and local governments under the Federal Technology Transfer Act of 1986. These agreements serve as a mechanism for the federal government to work with companies to develop new pollution prevention and control technologies and efficiently bring them into the marketplace.

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